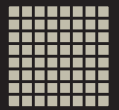
traxon

CREATIVE **LIGHTING** TECHNOLOGIES



USER MANUAL

Tile 64 PXL Wash
Tile 64 PXL Matrix
Mirror 64PXL Wash

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Manual - Version 1.0

USER MANUAL

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FOR YOUR OWN SAFETY AND THAT OF THE PRODUCT, PLEASE READ THIS USER GUIDE CAREFULLY BEFORE BEGINNING SET-UP AND INSTALLATION!

CAUTION: DO NOT OPEN OR HANDLE THE PANELS EXCEPT AT A STATIC FREE WORKSTATION OR WEARING AN ANTISTATIC WRIST STRAP.

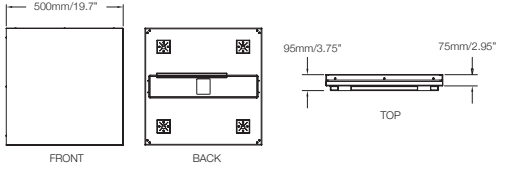
1. INTRODUCTION (1PXL SERIES)

TILE 64PXL WASH (PA-TI-50300)
TILE 64PXL MATRIX (PA-TI-50200)
MIRROR 64PXL WASH (PA-MI-50300)

These products are part of the Traxon™ Panels product line, enabling a flexible setup of medium to large scale RGB LED color changing walls. The 64PXL panels feature each 64 individually addressable pixels for full programming liberty. While the Wash versions enable optimal video replay capabilities thanks to Traxon Light Management, the Matrix version offers clearly defined pixels for sharp graphical effects. Traxon Mirror 64PXL Wash additionally serves as high class black mirror when switched off. High power LED technology combined with low power consumption brings the best solution possible for any number of applications.

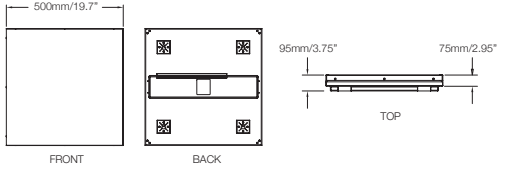
TILE 64PXL WASH

- 64 individually controllable RGB SMDs
- Seamless color transition between the pixels
- DMX Control
- RJ45 Cat5E Data Cabling



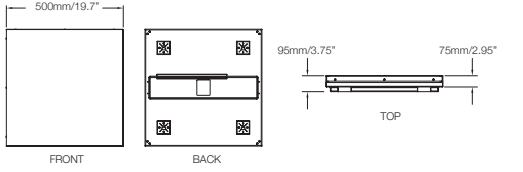
TILE 64PXL MATRIX

- 64 individually controllable RGB SMDs
- Clearly defined pixels
- DMX Control
- RJ45 Cat5E Data Cabling



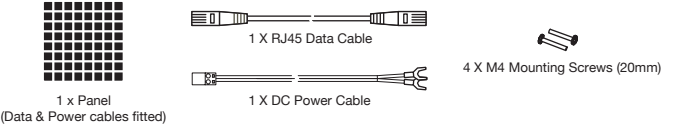
MIRROR 64PXL WASH

- 64 individually controllable RGB SMDs
- Premium reflective glass surface
- DMX Control
- RJ45 Cat5E Data Cabling



2. CONTENTS

TILE 64PXL WASH / TILE 64PXL MATRIX / MIRROR 64PXL WASH



3. SAFETY PRECAUTIONS

Failure to adhere to the following instructions could result in death, serious injury, or property damage, and will void the product warranty.

DANGER – ENSURE THAT MAIN POWER SUPPLY IS UNPLUGGED BEFORE INSTALLING OR WIRING THE PRODUCT.

CAUTION – POWER/DATA SUPPLY MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN OR TECHNICIAN IN ACCORDANCE WITH RELEVANT LOCAL STANDARDS AND REGULATIONS.

DO NOT ATTEMPT TO INSTALL OR USE THE PRODUCT UNTIL YOU HAVE READ THIS MANUAL THOROUGHLY AND UNDERSTAND THE INSTALLATION INSTRUCTIONS.

DO NOT USE THE PRODUCT IF ANY CABLES ARE DAMAGED.

This product is designed for indoor use only.

An ambient operating air temperature range of -15°C~+55°C (+4°F ~ +131°F) must be adhered to at all times.

DO NOT disassemble. The product has no user serviceable parts.

DO NOT use the product if the cover shield is broken.

If the product has been transported or stored in low temperatures, DO NOT connect it to the power supply until it has reached room temperature, to prevent any internal condensation from damaging the product's electronics.

DO NOT expose the product to moisture, extreme heat or direct sunlight. Use in a clean and dust free environment.

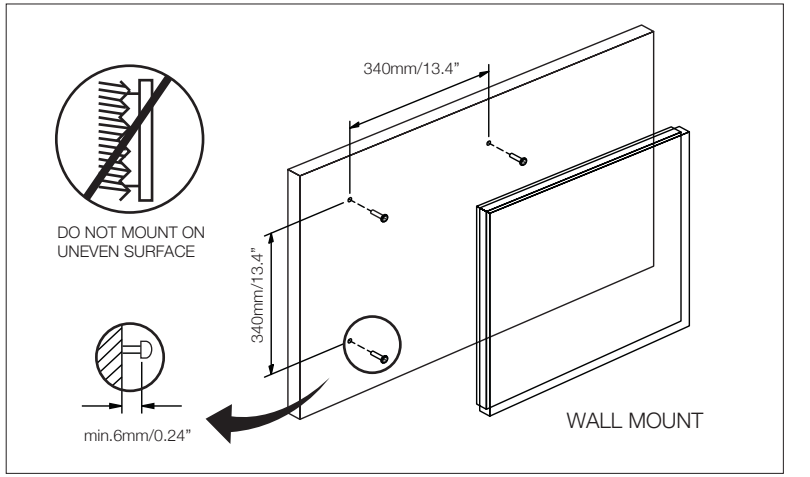
Avoid looking directly into the LED light at a close distance.

4. INSTALLATION AND SYSTEM CONFIGURATION

4-1 MOUNTING

- Use a pencil or chalk to mark the horizontal alignment before installation.
- Install four screws to the wall. Horizontal and vertical clearance between the screws should be 340mm.
- Hang the panel on the wall as shown in Fig 1.

FIG 1



IMPORTANT NOTE

Leave at least 6mm between the screw head and the wall.
Use of the supplied wall-mount accessories is strongly recommended.
For the best visual effect, mount on an even surface.

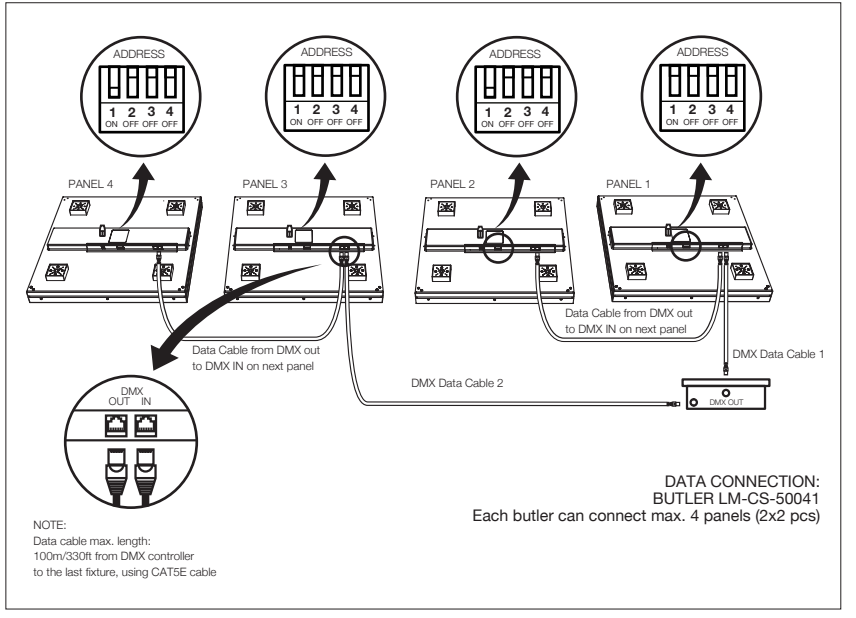
CAUTION – DO NOT INSTALL THE PANEL IF THE COVER SHIELD IS DAMAGED.

4-2 DATA CONNECTION

The 64PXL panels are controlled by Traxon Butler (LM-CS-50041), or standard DMX512 Ethernet to DMX Gateway units. Each Butler can control 2 sets of 2 panels for a total of 4 panels. (2 x 512 DMX channels)

Connect the panels to the Butler using the supplied CAT5e patch cables (Pin1: DMX-, Pin2: DMX+, Pin3: GND) as shown in the diagram below (Fig 2).

FIG 2



In this configuration, the Butler draws power directly from the 64PXL panels and does not require any external power supply.

4-2.1 ADDRESS SETTING

Each Butler can control 2x2 panels of 192 DMX-channels each in a daisy-chain configuration, i.e. maximum 4 panels. Each panel's starting address range is set using DIP switches on the rear of the panel. For each set of 2 panels:

- Set the first panel's DIP1 switch to OFF (address range 1-192).
- Set the second panel's DIP1 switch to ON (address range 193-384)

All the other DIP switches should be set to OFF.

ONLY QUALIFIED PERSONNEL SHOULD INSTALL THIS PRODUCT. INSTALLATIONS MUST COMPLY WITH LOCAL REGULATIONS.

ENSURE THAT THE POWER SUPPLY IS OFF BEFORE CONNECTING OR DISCONNECTING PANELS.

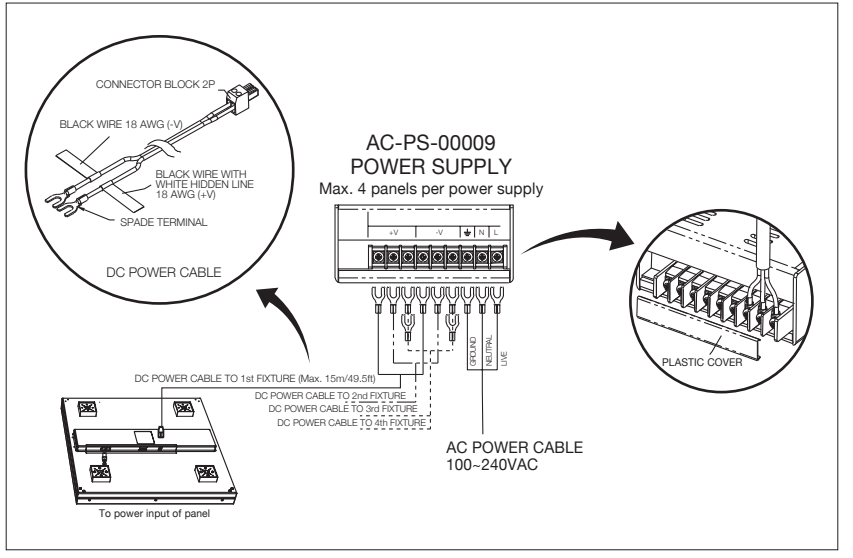
IMPORTANT NOTE

Length of the data cable between the Butler and the last panel should not exceed 100m/330ft.

4-3 POWER CONNECTIONS

Connect the 64PXL panels to an external 24V power supply as shown in the connection diagram below (Fig 3).

FIG 3



Each 24V System Power Supply (320W) (AC-PS-00009) can power up to 4 panels.
Make sure the panels are properly positioned and securely installed before connecting the power.

- Connect the DC OUT of the 24V System Power Supply to the POWER INPUT located at the back of each panel using a DC power cable. Connect the black wire 18AWG to -V and the black wire with white line 18AWG to +V.
- Connect the DC power cables for the 3rd and 4th panels to the same terminals on the power supply, as shown above.

- Connect the AC power cable (100~240VAC) to the first 3 terminals (L,N,⏚) .
- Make sure the panels are properly positioned and securely installed before use.

IMPORTANT NOTE

- The length of each DC power cable should not exceed 15m/49.5ft (18 AWG wire).
- To prevent overheating and overloading: do not tamper with the dc power cable.
- Make sure that only one panel is connected to each dc power cable.

THE CONNECTION OF THE POWER SUPPLY SHOULD ONLY BE HANDLED BY QUALIFIED TECHNICIAN.

THE MANUFACTURER BEARS NO RESPONSIBILITY FOR ANY MALFUNCTION OR DAMAGE CAUSED BY IMPROPER ELECTRICAL INSTALLATIONS.

ENSURE THAT THE POWER SUPPLY IS SWTICHED OFF BEFORE CONNECTING OR DISCONNECTING PANELS.

4-4 CONTROL

For configuration of the individual pixels per set of 2 panels, please refer to the standard DMX chart below (Fig 4).

Please note that you can modify the DMX channel allocation to suit your specific project using Traxon Light Management software. Please refer to the Butler (LM-CS-50041) user manual for configuration details.

FIG 4

DMX ADDRESSING - RGB CHANNELS

Frist Panel (Second Panel)	1-3 (193-195)	25-27 (217-219)	49-51 (241-243)	73-75 (265-267)	97-99 (289-291)	121-123 (313-315)	145-147 (337-339)	169-171 (361-363)
Frist Panel (Second Panel)	4-6 (196-198)	28-30 (220-222)	52-54 (244-246)	76-78 (268-270)	100-102 (292-294)	124-126 (316-318)	148-150 (340-342)	172-174 (364-366)
Frist Panel (Second Panel)	7-9 (199-201)	31-33 (223-225)	55-57 (247-249)	79-81 (271-273)	103-105 (295-297)	127-129 (319-321)	151-153 (343-345)	175-177 (367-369)
Frist Panel (Second Panel)	10-12 (202-204)	34-36 (226-228)	58-60 (250-252)	82-84 (274-276)	106-108 (298-300)	130-132 (322-324)	154-156 (346-348)	178-180 (370-372)
Frist Panel (Second Panel)	13-15 (205-207)	37-39 (229-231)	61-63 (253-255)	85-87 (277-279)	109-111 (301-303)	133-135 (325-327)	157-159 (349-351)	181-183 (373-375)
Frist Panel (Second Panel)	16-18 (208-210)	40-42 (232-234)	64-66 (256-258)	88-90 (280-282)	112-114 (304-306)	136-138 (328-330)	160-162 (352-354)	184-186 (376-378)
Frist Panel (Second Panel)	19-21 (211-213)	43-45 (235-237)	67-69 (259-261)	91-93 (283-285)	115-117 (307-309)	139-141 (331-333)	163-165 (355-357)	187-189 (379-381)
Frist Panel (Second Panel)	22-24 (214-216)	46-48 (238-240)	70-72 (262-264)	94-96 (286-288)	118-120 (310-312)	142-144 (334-336)	166-168 (358-360)	190-192 (382-384)

5. TROUBLESHOOTING

Problem	Solution
Panels cannot be installed close together	Ensure the installation surface is flat and smooth
Duplicated images appear	• Both panels have been set to the same starting address. • Check each panel's DIP switch setting.
Images do not show on the connected panels	• Data cable length exceeds 100m/330ft. • Check the connections of the Butler and panels. • Check that the power supply is connected to the panels and the power is ON. • Check the Butler/DMX controller configuration.
No power supply	• DC power cable length exceeds 15m/49.5ft • Wrong connection to power supply (refer to page 7)

6. CARE AND MAINTENANCE

Traxon™ products are of superior design and quality and should be treated with care. The recommendations below will help fulfill and warranty obligations and gain good use and longevity from the products.

- Make sure that the product(s) is installed correctly and securely
- For indoor use only
- Keep product in a dry and precipitation free area as this with damage the product(s) electronics
- Keep product(s) in a dirt and dust free environment
- Keep product(s) in an extreme heat free area and ensure that it has sufficient airflow and cool air circulation if required
- Do not attempt to service or repair the product(s) unless done by an authorized service again. Contact the local Traxon™ office or distributor for details
- Do not drop, knock or shake the product(s) as rough handling may damage the electronics and void the warranty
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean, wipe with a damp cloth on housings and a dry cloth on electronics to remove and buildup of dirt or dust

If the product is not working correctly, please contact your nearest authorized service centre or Traxon Technologies office for assistance

7. TECHNICAL SPECIFICATIONS

TILE 64 PXL WASH /MIRROR 64PXL WASH

Color resolution : 3 x 14 Bit (RGB)
Color range: 16.7 million additive RGB colors with variable intensity
Light source: Ultra Bright SMD LED
Source life: 50,000 hours under normal operating conditions
Beam angle: 120°
Power input: 24VDC
Current consumption: 3A maximum
Power consumption: 72W maximum
Operating temperature range: -15°C – 55°C (4°F – 131°F)
Storage temperature range: -40°C – 70°C (40°F – 158°F)

TILE 64 PXL MATRIX

Color resolution : 3 x 14 Bit (RGB)
Color range: 16.7 million additive RGB colors with variable intensity
Light source: Ultra Bright SMD LED
Source life: 50,000 hours under normal operating conditions
Beam angle: 120°
Power input: 24VDC
Current consumption: 35A maximum
Power consumption: 32.4W maximum
Operating temperature range: -15°C – 55°C (4°F – 131°F)
Storage temperature range: -40°C – 70°C (40°F – 158°F)

8. WARRANTY STATEMENT

Traxon warrants its Products against material or workmanship defects for a period of one (1) year from the date of purchase provided that the purchased items are under conditions stated in respective instruction manuals. Proof of purchase is necessary upon on warranty claim.

Any implied warranty of merchantability, or fitness for a particular purpose or use, shall be limited to the duration of the foregoing written warranty. Otherwise, the foregoing warranty is the purchaser's sole and exclusive remedy and is in lieu of all other warranties, express or implied. Traxon shall not be liable for any incidental or consequential damages or a loss of anticipated 16

All warranty information, product features and specifications are subject to change without notice.